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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT

CD NO.

COUNTRY Hungary

DATE DISTR. 1 DEC 50

SUBJECT Hydro-electric Station at Tiszaluc

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NO. OF ENCLS. (LISTED BELOW) 50X1-HUM

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SUPPLEMENT TO REPORT NO. 50X1-HUM

THIS IS UNEVALUATED INFORMATION

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1. Because the supply of electric power by the eastern and western Diosgyör power stations had become inadequate, during the war, for the vast production program and at the same time supplies of coal were difficult to obtain, MAVAG decided to build a hydro-electric power station at Tiszaluc using the Hernad River.

2. The erection of a 20,000 KW hydro-electric power station at Tiszaluc was completed in 1944. Since it suffered no damage during the war, it was put in operation in 1945, almost immediately after the occupation. 50X1-HUM

3. A receiving lock of approximately 2,000 square meters has been built in the area between Belsö and Kulsö Bocs. This serves as a collecting area, from which the water flows to the actual dammed area. There are three sluice gates, situated between II and III.

4. The inlet channel is 2,600 meters long and has wooden walls which are reinforced with stone at the curves. The width at the bottom is six meters and on the surface, 14 meters. This channel directs water to the two water ducts 50X1-HUM marked V, and widens to twice its size before reaching the duct. The widened inlet channel is locked from the duct by sluices. There is a drop of 14 meters. These ducts, as well as the sluices, can work together or singly. Likewise, the turbines can be operated either together or singly.

5. The ducts are of reinforced concrete and are built between seven-meter "Larsen" walls (?). The power station is built on caisson foundations. The ducts are connected to the building by expanding joints 50 mm. wide made of a special bitumen composition.

6. The turbine pits are ten meters below ground and contain two vertical-axle Ganz turbines. The power is transmitted from the turbines to another building where two Ganz engines are installed. These engines can work together or singly. The current goes from the control room via long-distance cables to the eastern power station of the Diosgyör Iron and Steel Factory.

7. The water leaving the turbines passes through an opening nine meters below ground into a tail race, 10 meters below ground, and discharges into the Tisza in the Tiszaluc area.

8. The installation of the hydro-electric power station was carried out by the Ganz Factory.

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